WHAT IS CLAIMED IS:

- 1. A method for classifying facial images from a partial view of a facial image, the method comprising the steps of:
- a) training a classifier device for recognizing facial images, said classifier device being trained with input data associated with a facial image of a subject;
- b) detecting a partial view of a subject's facial image; and,
- c) warping said partial view of the subject's facial image onto a frontal image to obtain a warped image of said subject; and,
- d) classifying said warped image according to a classification method performed by said trained classifier device.
- 2. The method of claim 1, wherein said obtaining step b), includes the step of implementing a face detection algorithm.
- 3. The method of claim 1, wherein said warping step c) comprises the steps of:

finding a head pose of said detected partial
view;

defining a generic head model and rotating said generic head model (GHM) so that it has the same orientation as the given face image;

translating and scaling said GHM so that one or more features of said GHM coincide with the given face image

recreating said image to obtain a frontal view of the face.

- 4. The method of claim 3, wherein said step of finding a head pose of said detected partial view comprises the step of implementing an algorithm to find a head pose from a minimal number of point matches.
- 5. The method of claim 4, wherein said algorithm comprises a four-point algorithm wherein the minimal number of match points is four.
- 6. The method of claim 4, further including the step of modifying said GHM so that other detectable features of said GHM correspond to those on the given face image.
- 7. The method of claim 6, wherein said detectable features of said GHM includes one or more of mouth features, nostrils, tip of the nose, ear features, eye brows.
- 8. The method of claim 6, wherein said image recreating step includes the step of utilizing view morphing techniques to recreate a partial face view, said

partial face view comprising said warped image to be classified.

- 9. The method of claim 1, wherein said classifying step d) includes implementing a Radial Basis Function Network.
- 10. An apparatus for classifying facial images from a partial view of a facial image, the apparatus comprising:
- a) a classifier device for recognizing facial images, said classifier device being trained with input data associated with a facial image of a subject;
- b) mechanism for obtain a warped image of said subject, said mechanism including detecting a partial view of a subject's facial image and warping said partial view of the subject's facial image onto a frontal image of said subject; wherein said warped image is input to said trained classifier device for classifying said warped image.
- 11. A program storage device readable by machine, tangibly embodying a program of instructions executable by the machine to perform method steps for classifying facial images from a partial view of a facial image, the method comprising the steps of:
- a) training a classifier device for recognizing facial images, said classifier device being trained with input data associated with a facial image of a subject;

- b) detecting a partial view of a subject's facial image; and,
- c) warping said partial view of the subject's facial image onto a frontal image to obtain a warped image of said subject; and,
- d) classifying said warped image according to a classification method performed by said trained classifier device.